



US 20050063918A1

(19) **United States**

(12) **Patent Application Publication** (10) **Pub. No.: US 2005/0063918 A1**
Charmot et al. (43) **Pub. Date: Mar. 24, 2005**

(54) **ORAL COMPOSITION**

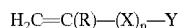
Publication Classification

(75) Inventors: **Dominique Charmot**, Campbell, CA (US); **Christopher David Gibbs**, Bebington (GB); **Oleg Kolosov**, San Jose, CA (US); **Mingjun Liu**, Santa Clara, CA (US); **Son Hoai Nguyen**, Santa Clara, CA (US); **Miroslav Petro**, San Jose, CA (US); **Steven Paul Rannard**, Bebington (GB)

(51) **Int. Cl.⁷** **A61K 9/68; A61K 7/16**
(52) **U.S. Cl.** **424/48; 424/49**

(57) **ABSTRACT**

Oral care composition comprising a polymer obtainable by copolymerising a mixture of comonomers, in which at least 40 mol % of the mixture of comonomers is constituted by a comonomer having the formula (I):



in which R is hydrogen or a methyl group, X is a divalent organic linking group, n is an integer of 0 or 1, and Y is a carboxylate or phosphonate anion, or the corresponding salt or acid thereof;

and in which the balance of the mixture of comonomers is constituted by neutral and/or cationic comonomers;

said composition being in the form of any one of a tooth-paste, gel, foam, chewing gum, deformable strip or mouth-wash and being suitable for use in the oral cavity.

Correspondence Address:

UNILEVER INTELLECTUAL PROPERTY GROUP
700 SYLVAN AVENUE,
BLDG C2 SOUTH
ENGLEWOOD CLIFFS, NJ 07632-3100 (US)

(73) Assignee: **Unilever Home & Personal Care USA, Division of Conopco, Inc.**

(21) Appl. No.: **10/665,710**

(22) Filed: **Sep. 19, 2003**